

Title (en)

Method and device for determining the speech latency across a network element of a communication network

Title (de)

Verfahren und Vorrichtung zur Feststellung der Sprachlatenzzeit durch ein Netzwerkelement eines Kommunikationsnetzwerkes

Title (fr)

Méthode et dispositif pour déterminer la latence de la parole à travers un élément de réseau d'un réseau de transmission

Publication

**EP 1557979 B1 20070131 (EN)**

Application

**EP 04001231 A 20040121**

Priority

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Abstract (en)

[origin: EP1557979A1] The following invention relates to a device for determining the speech latency across at least one network element (10) of a communication network, which is designed to transmit a speech signal encoded in digital data either in a circuit switched or in a packet-oriented way, wherein at the input of the network element (10) is arranged a first interface (12) and at the output of the network element (10) a second interface (14), comprising a means for allocating a timestamp to the data packets of a sample of data packets at the two interfaces (12, 14), a means (20, 22) for recording the allocated timestamps together with the corresponding data packets, a means (32, 34) for decoding the recorded data packets at both interfaces for generating a respective envelope in the time domain, a means (30) for performing a cross-correlation between both envelopes for determining correlating areas of the first and second envelope and a means (38, 40) for determining a value for the speech latency between the first and second interface (12, 14) from the associated timestamps of correlating areas of the first and second envelope. Further it relates to a corresponding method. <IMAGE>

IPC 8 full level

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